

3TU.Federatie

An example of cooperation from the Netherlands

Ir Sijas P. Akkerman



Science and Technology Sectorplan Taskforce

} From May 2002 - April 2004

} **Loek Hermans (chair)**

} **Hans van Luijk (chairman TUD)**



} **Amandus Lundquvist (chairman TU/e)**



} **Frans van Vught (chairman UT)**



} **Sijas Akkerman (secretary)**



Dutch Innovation Platform

- } Cabinet (MP, MEZ, MOCW)
- } Trade and Industry
- } Knowledge Institutes
- } Independent members



Some of the results:

- } Place a number of issues high on the (political) agenda
- } New networks on national and regional level
- } Financial impulses within government budget
- } Introduction of innovation vouchers
- } Facilitating the entry of foreign knowledge workers
- } Initiated discussions about subjects that received little attention in the Netherlands, such as the debate on excellence



New mission and goals

- } Long term strategy for innovation en entrepreneurship
- } Stimulate use innovation in social issue's
 - } Rise level of sea and river water
 - } Sustainable energy
 - } Healthcare



Aim of the Sectorplan Taskforce

- } **Create a single Federation of Technical University's in the Netherlands by 2010**
 - } **co-ordinating research**
 - } **combining educational programmes**
 - } **enhancing activities of knowledge valorisation**



NEDERLAND



TU Delft

Universiteit Twente

TU Eindhoven

STU

Why started the cooperation?



- } Request of the minister of Education, Culture and Science**
 - } Called for the establishment of a national, macro-effective palette of master's degree courses at the three TUs**
 - } The Taskforce extended it by education and research**



Ambitions of the Taskforce



} In words:

- } Boost the Knowledge Economy of the Netherlands
- } Rank among the absolute top in Europe
- } Supplying first-rate engineers, doctoral candidates and designers
- } Generating innovations

} In real:

- } **Virtual Technical University of the Netherlands**
- } ***3TU Graduate School***
- } ***3TU Institute of Science & Technology***
- } ***3TU Innovation Lab***



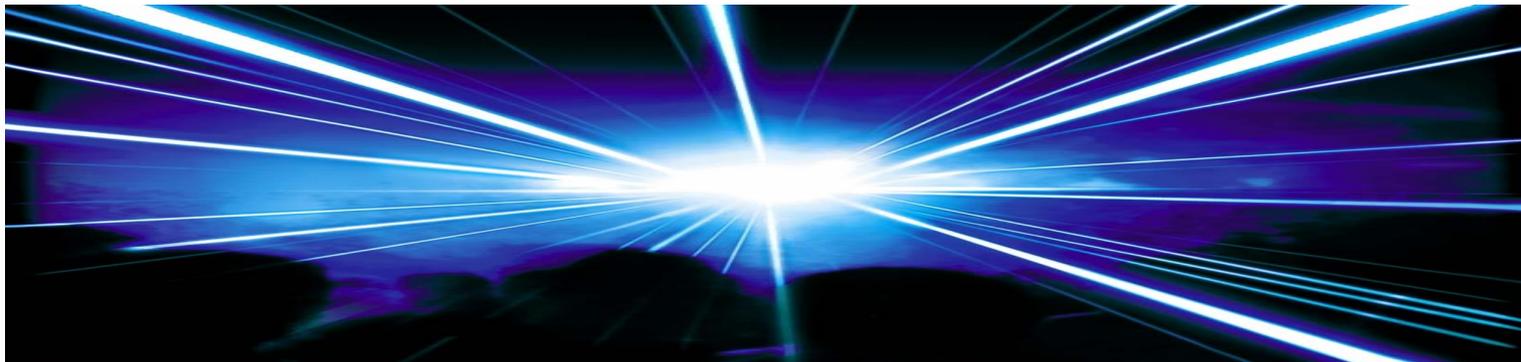
Ambitions in education

- } Reduce Master's degree courses by setting a minimum limit of 20 new students
- } Establishing a number of shared Master's
- } 15% increase of bachelor students
- } 50 to 70 % increase output of Bachelor's
- } 20% increase students starting master's
- } 30% increase of international students
- } 70 to 90 % increase in the output of the Master's degree courses



Ambitions in research

- } Joint place in the absolute European top with research spearheads
- } 20% increase in the number of PhD's
- } 20% increase in the secondary flow of funds
- } 20% increase in the international flow of funds (e.g. EU resources)
- } Reappropriating 12 to 15 % primary flow of funds until 2010



Knowledge valorisation

- } **20 % increasing the tertiary flow of funds (i.e. money from the business community)**
- } **30 additional patents a year for the three TUs**
- } **25 % increasing the number of spin-off companies**



Results form April 2004

- } **Period of cooling down**
- } **50 million from the Cabinet**
- } **Several new 3 TU masters**



Results form April 2004

} 3 TU centres of excellence:

} [3TU.Centre for Multiscale Phenomena](#)

} [3TU.Centre for Bio-Nano Applications](#)

} [3TU.Centre for Intelligent Mechatronic Systems](#)

} [3TU.Centre for Dependable ICT Systems](#)

} [3TU.Centre for Sustainable Energy Technologies](#)

} [3TU.Centre for Ethics and Technology](#)



Founding 3TU.Federation



} 7 Februari 2007



Organisation structure 3 TU

- } Administrative board (boards of 3 TU)
- } 3 TU Managing board (3 chairmen)
 - } Research comity
 - } Education comity
 - } Knowledge valorisation comity
 - } Operational comity



Lessons: walk through the elementary steps cooperation

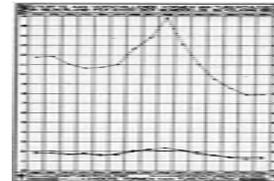
} **Forming**



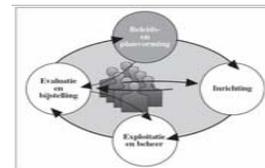
} **Storming**



} **Norming**



} **Performing**



Praxisgipfel: Die Gestaltung des Informationsmanagements, 10. Oktober 2002, 2.1.1.2.4.1

Lessons

Committed leaders



Brilliant staff



Financial support



Shared projects



3 TU Federatie: Example of colorful cooperation

